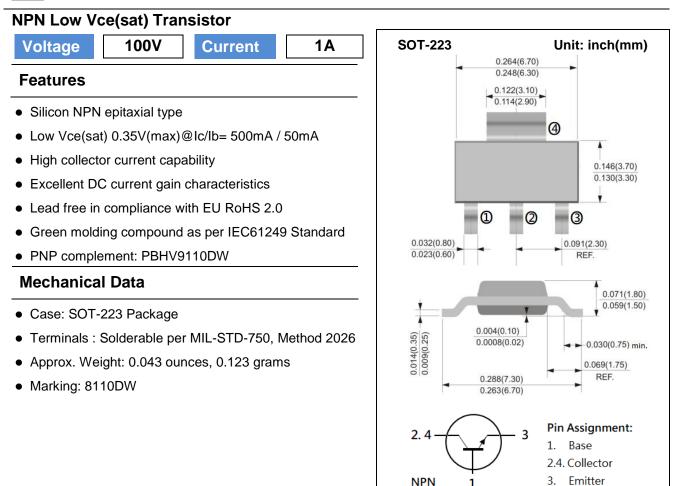
PΛN	ĴΪΤ
	SEMI CONDUCTOR



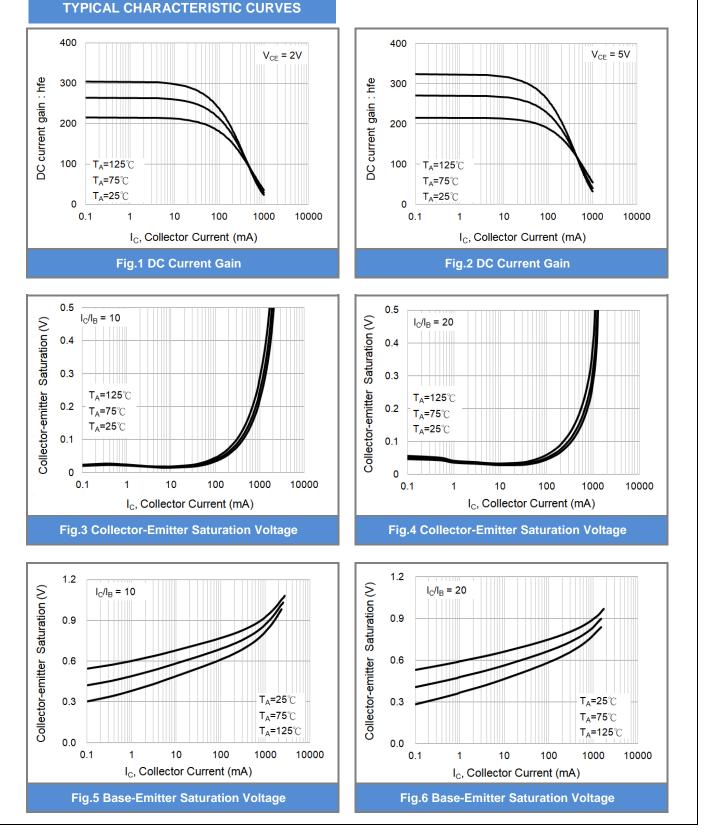
### **Maximum Ratings and Thermal Characteristics** (T<sub>A</sub>=25<sup>°</sup>C unless otherwise noted)

BO 120   EO 100   BO 6   C 1   R 3	V V V A A
во 6 с 1	V   A
	A
3	А
P 3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
<sub>D</sub> 2.6	W
J 150	°C
-55~150	O°C
JA 48	°C/W
Γ	Γ <sub>STG</sub> -55~150



<b>Electrical Characteristics</b> ( $T_A=25^{\circ}C$ unless otherwise noted)							
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
OFF Characteristics							
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> = 10mA, I <sub>B</sub> = 0A	100	-	-	V	
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> = 0.1mA, I <sub>E</sub> = 0A	120	-	-	V	
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	I <sub>E</sub> = 0.1mA, I <sub>C</sub> = 0A	6	-	-	V	
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> = 120V, I <sub>E</sub> = 0A	-	-	500	nA	
Emitter Cutoff Current	I <sub>EBO</sub>	$V_{EB} = 6V, I_{C} = 0A$	-	-	500	nA	
ON characteristics							
DC Current Gain (Note1)	h <sub>FE</sub>	$V_{CE}$ = 2V, $I_{C}$ = 150mA	140	-	330		
		$V_{CE}$ = 5V, I <sub>C</sub> = 500mA	100	-	300		
		$V_{CE} = 5V, I_{C} = 1A$	40	-	-		
Collector-Emitter Saturation Voltage (Note1)	V <sub>CE(SAT)</sub>	I <sub>C</sub> = 0.1A, I <sub>B</sub> = 10mA	-	38	120	mV	
		I <sub>C</sub> = 0.5A, I <sub>B</sub> = 50mA	-	117	350		
		I <sub>C</sub> = 1A, I <sub>B</sub> = 0.1A	-	220	450		
Base-Emitter Saturation voltage	e	I <sub>C</sub> = 0.1A, I <sub>B</sub> = 10mA	-	-	1.0	V	
(Note1)	V <sub>BE(SAT)</sub>	I <sub>C</sub> = 0.5A, I <sub>B</sub> = 50mA	-	-	1.1		
Transition Frequency	f <sub>T</sub>	$V_{CE}$ = 5V, I <sub>E</sub> = -50mA	100	-	-	MHz	
Collector Output Capacitance	Сов	V <sub>CB</sub> = 10V, I <sub>E</sub> = 0A, f=1MHz	-	-	10	pF	

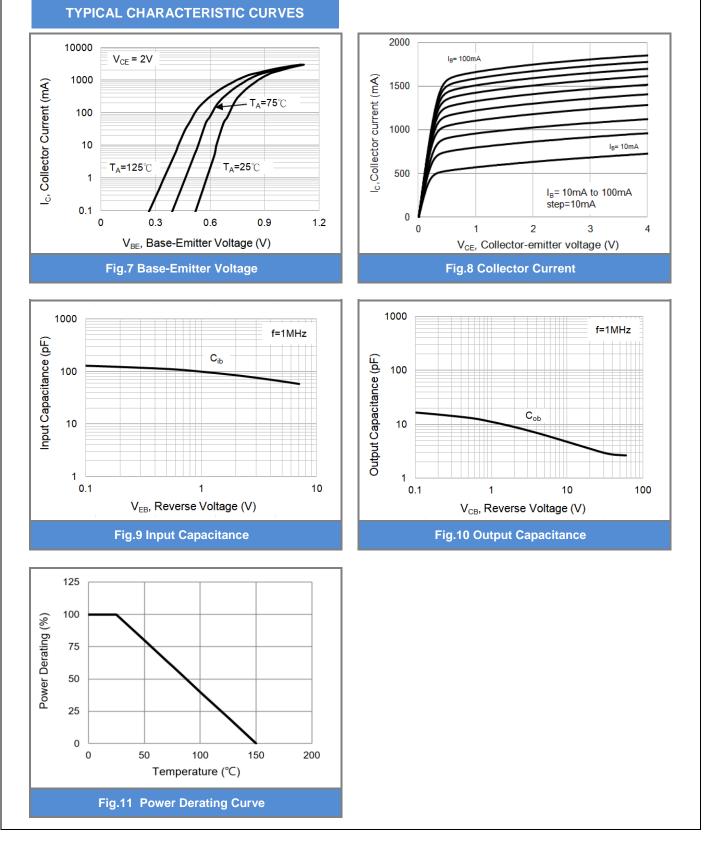
Note: 1. Pulse width300us, Duty cycle2%



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**PBHV8110DW** 





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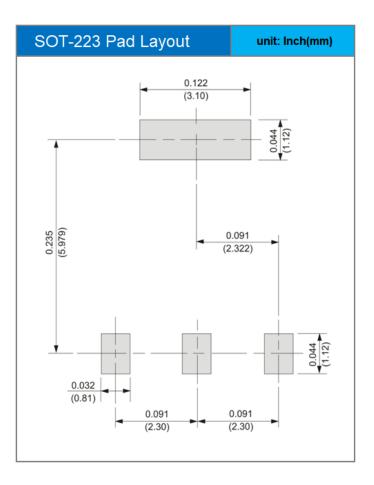




#### PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PBHV8110DW_R2_00001	SOT-223	2,500 pcs / 13" reel	8110DW	Halogen free

#### **MOUNTING PAD LAYOUT**





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